

City of Frisco

Storm Water Utility Final Fee and Rate Structure

December 2008



Agenda

- Recap - Storm Water Management Needs
- Storm Water Utility
 - Utility Fee Basis
 - Cost of Service
 - Proposed Fee and Rate Structure

Storm water management needs

- New unfunded federal mandate
 - TCEQ Phase II MS4
- Growing storm water system
 - Current O&M service level
 - Future service demands
- Maintenance and Capital improvements
 - Correct known drainage problems
 - Address issues from expected future developments



Phase II MS4 requirements

Federal
Mandate

- Water quality protection program
 - Minimize pollutants entering creeks and lakes
- Maximum extent practicable
- Best management practices (BMPs)
 - Educational programs
 - Street sweeping
 - Culvert and inlet cleanouts
 - Creek maintenance
 - Plan reviews
 - Inspections and reporting
 - Municipal facilities improvements
 - Modified storm water policies and development practices
- Staffing



Numbered Municipalities in Denton County

- 1 - Shady Shores
- 2 - Hackleberry
- 3 - Lakewood Village
- 4 - Lake Dallas
- 5 - Hickory Creek
- 6 - Copper Canyon
- 7 - Double Oak
- 8 - Marshall Creek
- 9 - Trophy Club

Numbered Municipalities in Collin County

- 10 - St. Paul

Numbered Municipalities in Tarrant County

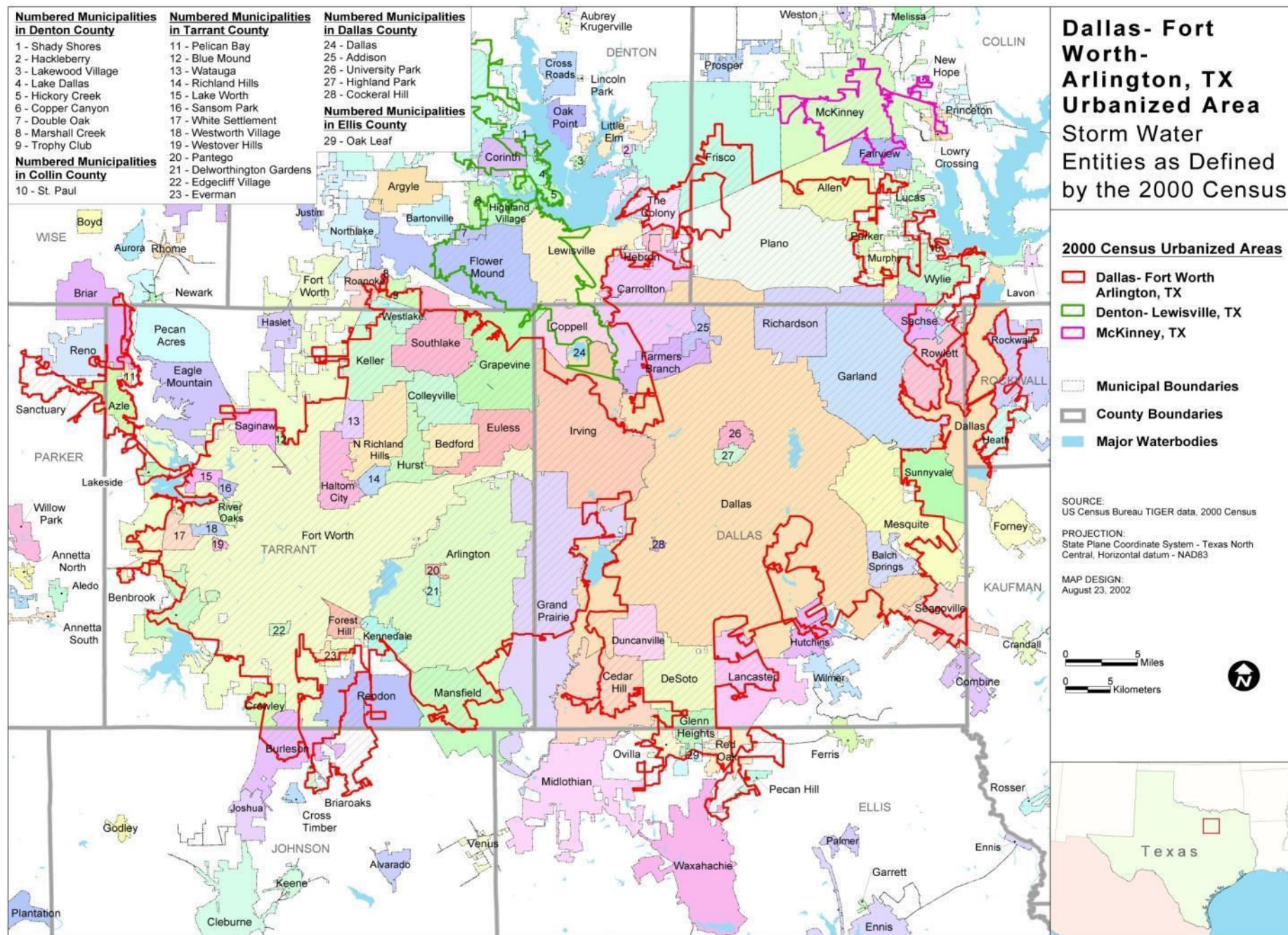
- 11 - Pelican Bay
- 12 - Blue Mound
- 13 - Watauga
- 14 - Richland Hills
- 15 - Lake Worth
- 16 - Sansom Park
- 17 - White Settlement
- 18 - Westworth Village
- 19 - Westover Hills
- 20 - Pantego
- 21 - Delworthington Gardens
- 22 - Edgely Village
- 23 - Everman

Numbered Municipalities in Dallas County

- 24 - Dallas
- 25 - Addison
- 26 - University Park
- 27 - Highland Park
- 28 - Cockrell Hill

Numbered Municipalities in Ellis County

- 29 - Oak Leaf



Phase II MS4 Requirements

Federal
Mandate

Compliance Requirement

- Public Education and Participation

Recommendation

- Hire Water Quality Education Specialist

FY09 Projected Cost

Position	Salary	Ancillary	Equipment*	Total
Water Quality Education Specialist	\$50,000	\$22,500	\$50,000	\$105,000

* Vehicle to be provided from existing pool

Phase II MS4 Requirements

Federal
Mandate

Compliance Requirement

- Construction Site Inspection and Erosion Control

Recommendation

- Storm Water System Inspector

FY09 Projected Cost

Position	Salary	Ancillary	Equipment	Total
Storm Water System Inspector	\$49,000	\$22,150	\$11,557	\$82,707

Phase II MS4 Requirements

Federal
Mandate

Compliance Requirement

- Development Policy Updates
- Development Plan Reviews
- Capital Improvements

Recommendation

- Hire Storm Water Engineer

FY09 Projected Cost

Position	Salary	Ancillary	Equipment*	Total
Storm Water Engineer	\$95,000	\$38,250	--	\$133,250

* Vehicle to be provided from existing pool

Phase II MS4 Requirements

Federal
Mandate

Compliance Requirement

- Storm Water System Maintenance

Recommendation

- Hire Storm System Maintenance Crews

FY09 Projected Cost

Position	Salary	Ancillary	Equipment	Total
Drainage Crew 1	\$152,000	\$53,200	\$122,672	\$327,872
Drainage Crew 2	\$152,000	\$53,200	\$150,823	\$356,023
Supervisor	\$51,000	\$22,850	\$11,557	\$85,407
Total	\$355,000	\$129,250	\$285,052	\$769,302

Phase II MS4 Requirements

Federal
Mandate

Drainage Crew(2)

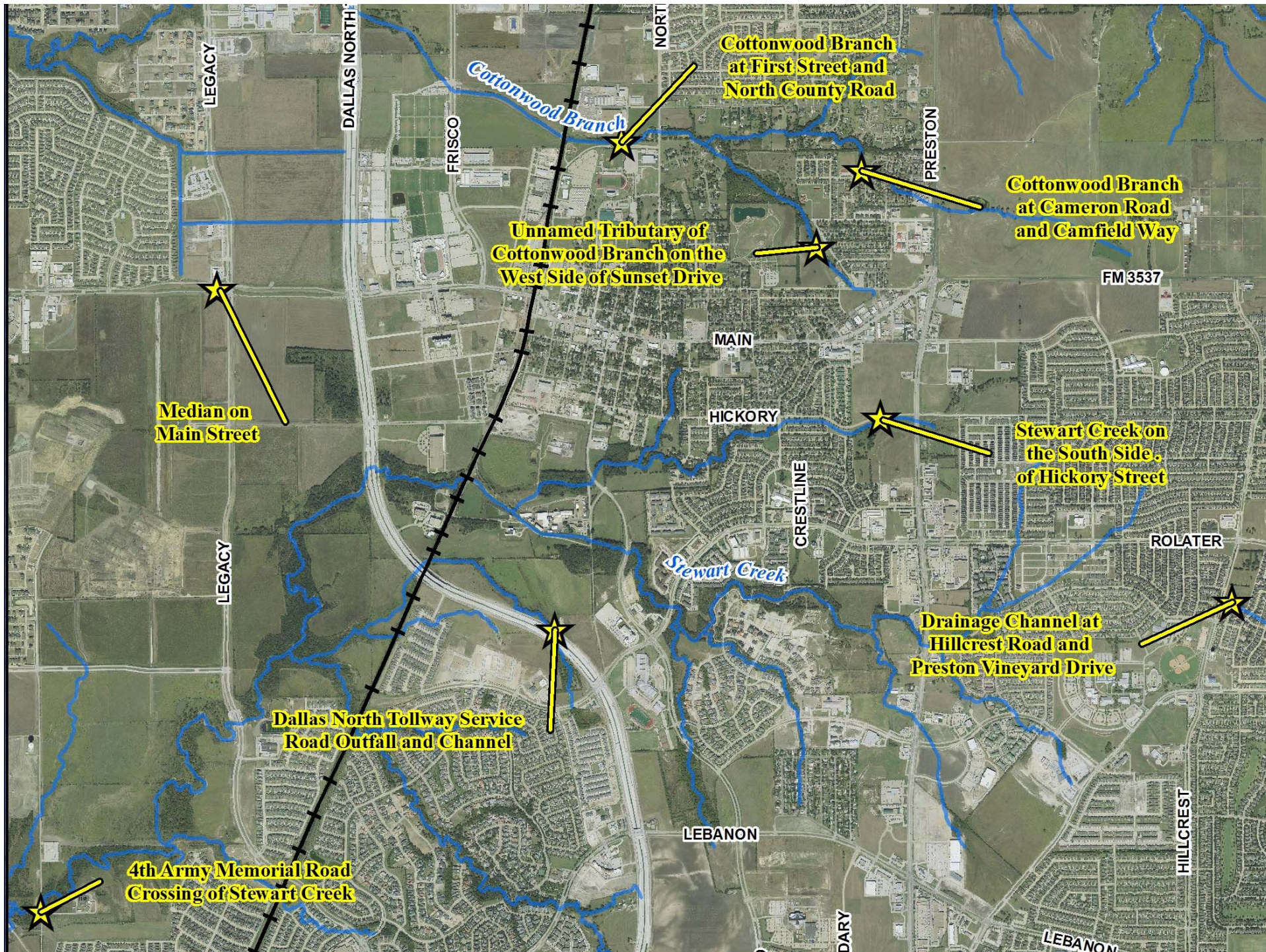
- Equipment Operator 1 (4)
- Equipment Operator 2 (4)
- Crew Leader (2)
- Crew Supervisor

Crew Equipment

- Crew pickups (3)
- Dump truck
- Vacuum truck
- Grade-all
- Compact track loader/trailer
- Backhoe/trailer
- Wheel loader

Labor and Equipment Summary

Position	Salary	Ancillary	Equipment	Total
Water Quality Education Specialist	\$50,000	\$22,500	\$50,000	\$105,000
Storm Water System Inspector	\$49,000	\$22,150	\$11,557	\$82,707
Storm Water Engineer	\$95,000	\$38,250	--	\$133,250
Drainage Crew 1	\$152,000	\$53,200	\$122,672	\$327,872
Drainage Crew 2	\$152,000	\$53,200	\$150,823	\$356,023
Supervisor	\$51,000	\$22,850	\$11,557	\$85,407
Total	\$549,000	\$212,150	\$346,609	\$1,090,259



Maintenance needs

Erosive
Conditions at
Dallas North
Tollway Service
Road Outfall



Maintenance needs

Culvert
Crossing of
Stewart Creek
at 4th Army
Memorial Road



Planning and Maintenance

Storm Water Master Plan

- Identify existing and expected system inadequacies
- Identify capital improvements

FY 09 Projected Cost

- \$500K / year for maintenance, system planning, and study reimbursements



Capital Improvement Projects

- Stewart Creek watershed
 - Initial stages of storm water master plan in progress
 - Accounts for ~40% of City area
 - Master plan assists future development
 - Identifies needed capital improvements
 - No funding in proposed SWU fee

Lewisville
Lake

Administrative Costs

General and Administrative Reimbursement to General Fund

- Rate = 6%

FY 09 Projected Cost = \$63,515

Fund Operating Reserve

- minimum 3 months

FY 09 Projected Cost = \$149,133

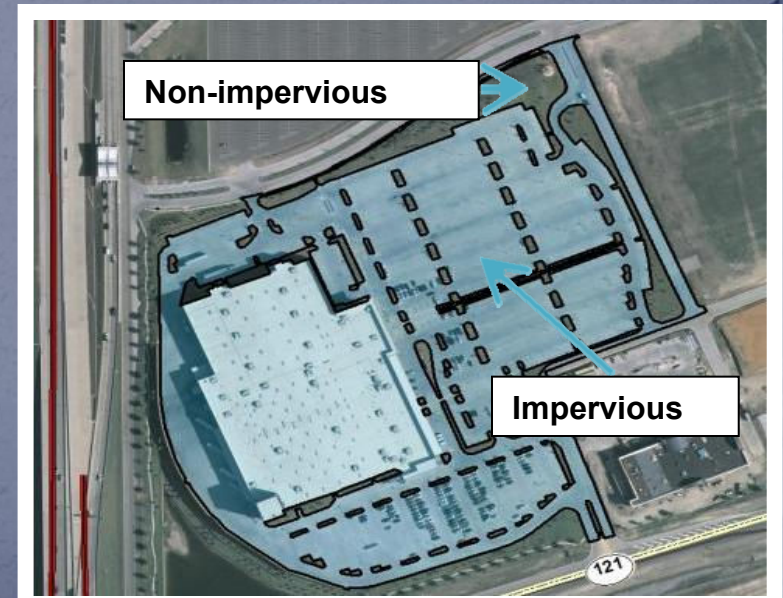
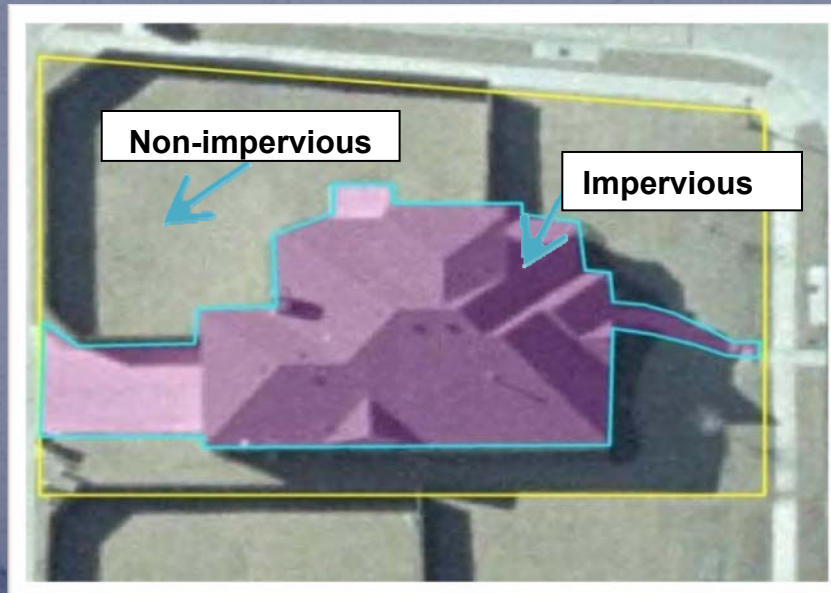
Cost of service

**Supervisor & additional
Drainage Crew**

	Service Level 1		Service Level 2		
Cost	2009	2010	2011	2012	2013
Labor	\$467,100	\$490,456	\$789,029	\$810,435	\$842,856
Equipment	\$3,057	\$44,932	\$44,932	\$116,061	\$116,061
O&M	\$73,500	\$157,972	\$171,384	\$267,153	\$277,841
Maint. and Planning	\$526,488	\$551,488	\$577,738	\$605,301	\$634,241
Admin. Reimb.	\$64,209	\$74,691	\$94,985	\$107,937	\$112,260
Operating Reserve	\$157,206	\$49,516	\$177,726	\$60,249	\$101,910
Total	\$1,291,560	\$1,369,055	\$1,855,794	\$1,967,136	\$2,085,169

Storm water utility fee basis

- Cost based on storm water–related services
- Fee based on amount of impervious area (IA)
- Residential properties grouped into tiers by parcel size
- Non-residential properties determined individually



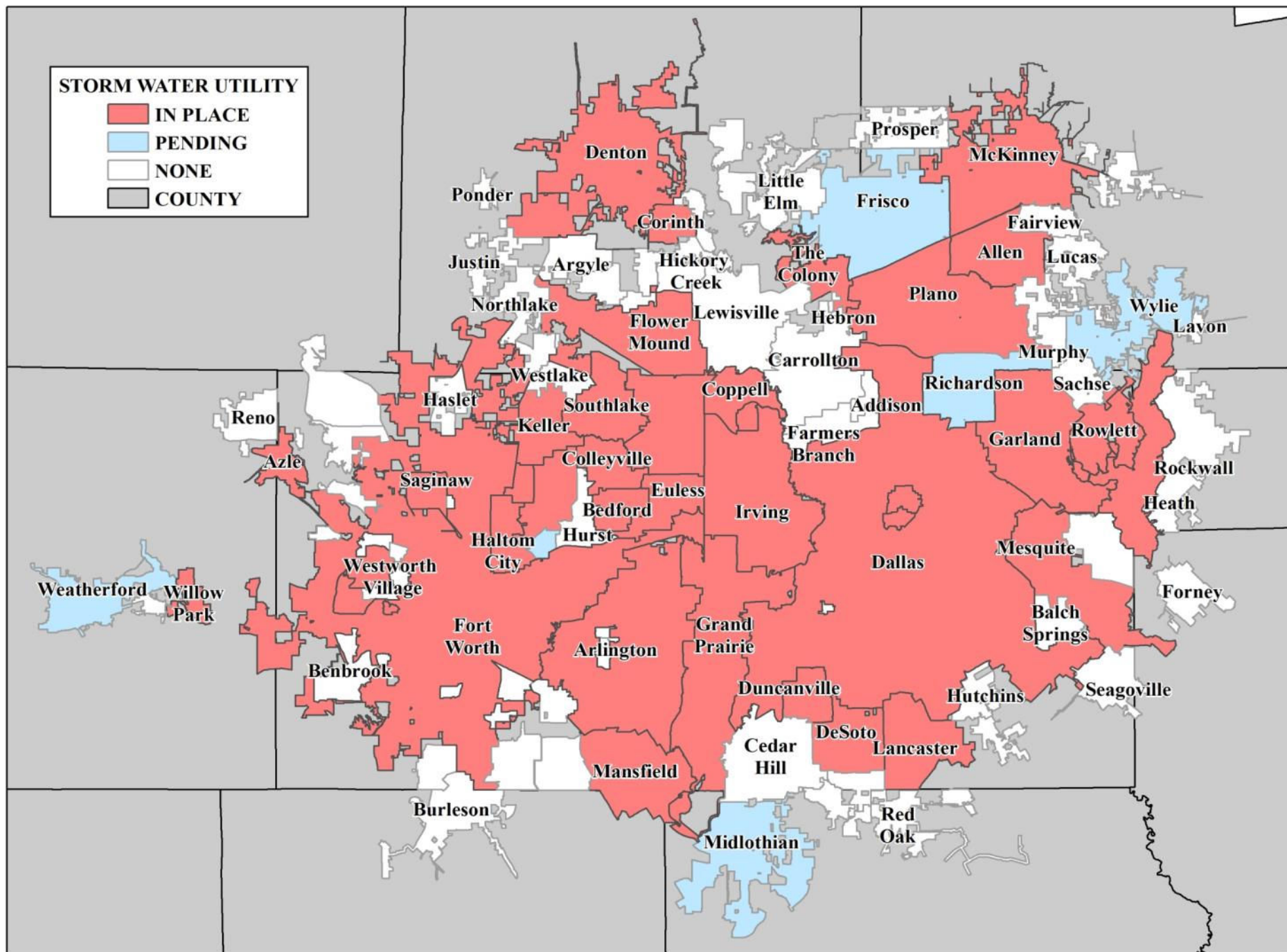
Exemptions

Required

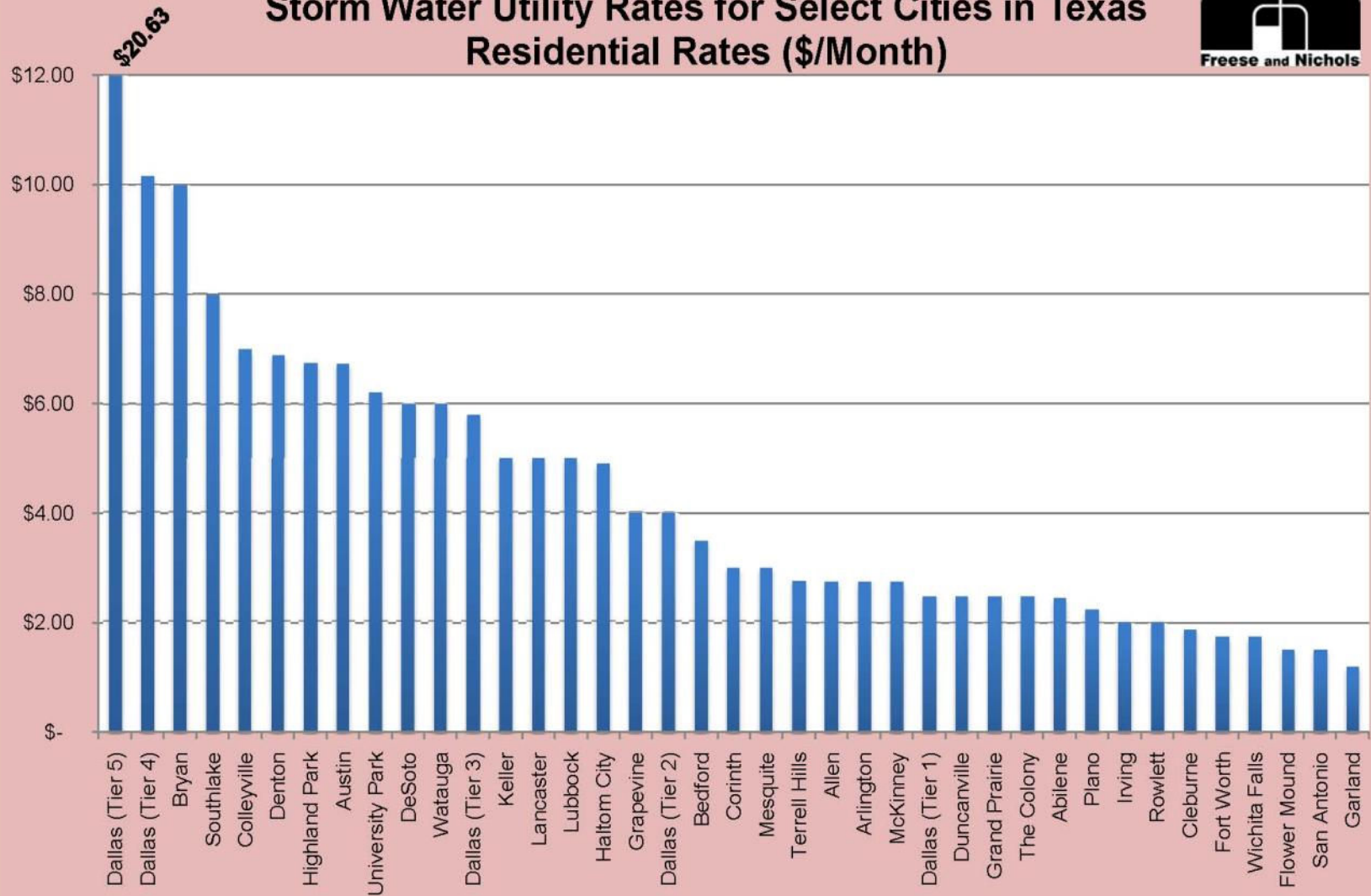
- Undeveloped property
- Property with no storm system impact
- State property
- Colleges
- Lot under construction

Allowed

- City property
- County property
- School district property
- Tax-exempt religious institution property



Storm Water Utility Rates for Select Cities in Texas Residential Rates (\$/Month)

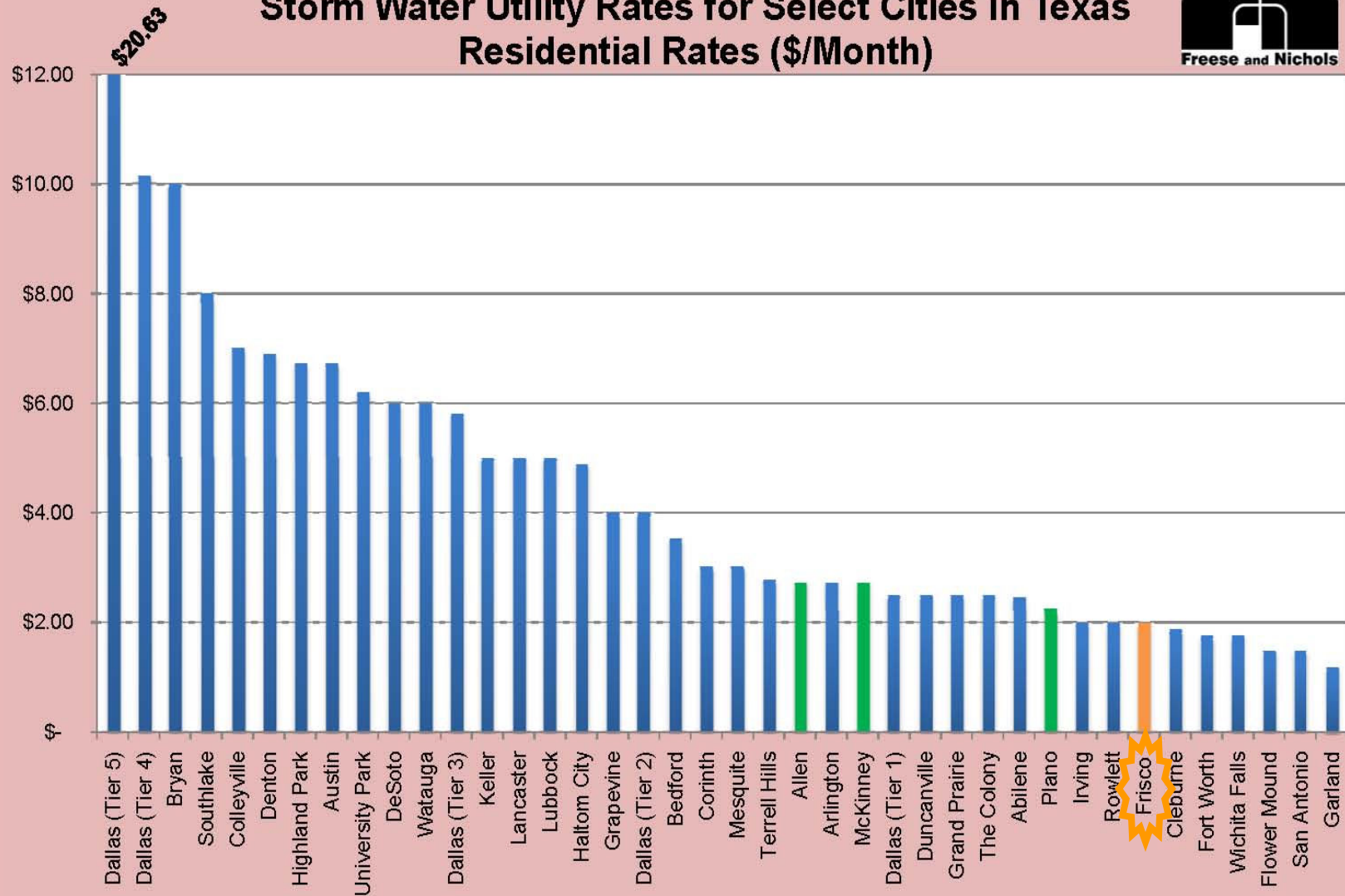


Proposed fee structure and rates

Annual Revenue FY 09 = \$1,300,000

Property Type	Tier (lot size sq ft)	2009 - 2010	2011 - 2013
Residential Single Family (\$/house/month)	1. < 5,000	\$1.20	\$1.55
	2. 5,000 – 20,000	\$2.00	\$2.60
	3. > 20,000 or more	\$3.85	\$5.00
Commercial	\$/100 sq ft of impervious area	\$0.057	\$0.074

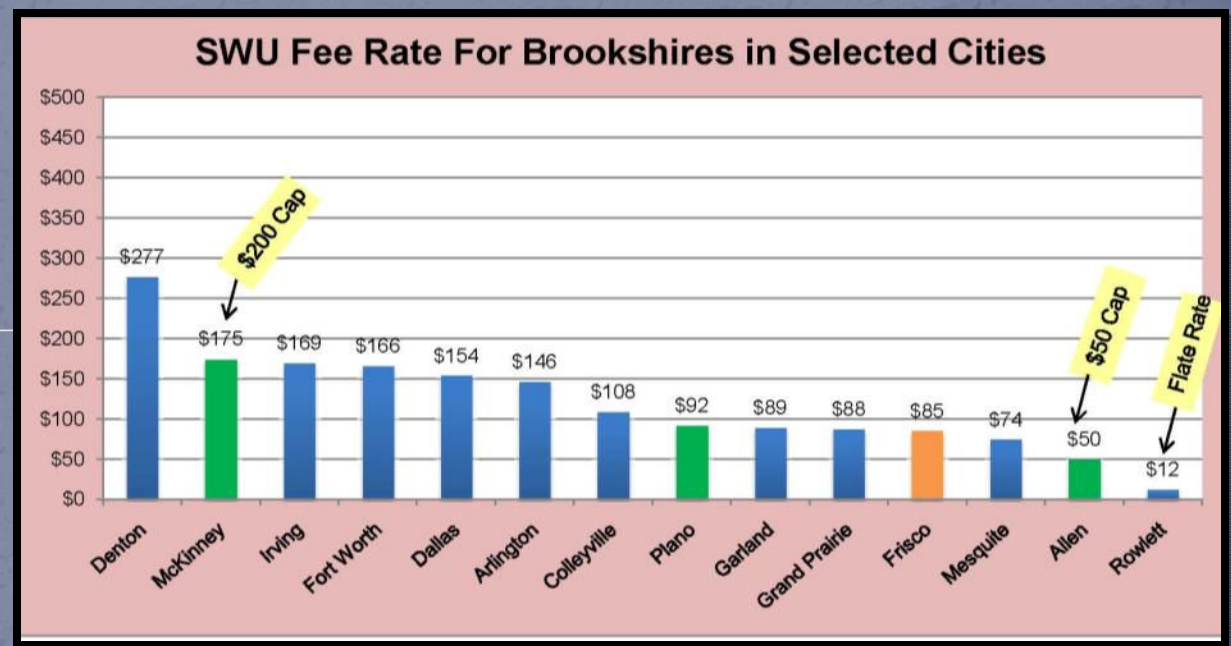
Storm Water Utility Rates for Select Cities in Texas Residential Rates (\$/Month)



SWU Rates for Typical Commercial Properties



SWU Rates for Typical Commercial Properties



City Comparison – Monthly Rate

	Allen	McKinney	Plano	Frisco
Small Residential	\$2.75	\$2.75	\$2.25	\$1.20
Average Residential	\$2.75	\$2.75	\$3.30	\$2.00
Large Residential	\$2.75	\$2.75	\$4.25	\$3.85
Non-residential (100 sq ft IA /mo.)	\$0.048 Min \$18.72/mo Max \$50.00/mo	\$0.117 Max \$200/mo. Min \$2.75	\$0.056 + 10% IA Adjustment Min \$2.25/mo	\$0.057
Small business (i.e., McDonalds)	\$17	\$37	\$19	\$17
Large business (i.e., Brookshires)	\$50.00	\$175	\$92	\$85

Questions ?
